

FORM PTO-1449		Page 1 of 2					
FIRST SUPPLEMENTARY INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 0942.5190002/RWE/CJW FIRST NAMED INVENTOR Scott WHITNEY FILING DATE August 27, 2003 ART UNIT 1743					
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
mw	AE1	4,416,998	11/22/1983	Adams et al.			03/17/1982
	AE1	4,434,234	02/28/1984	Adams et al.			06/09/1982
mw	AG1	4,582,808	04/15/1986	Oosawa et al.			05/18/1984
	AH1	5,064,768	11/12/1991	Ebata et al.			08/12/1989
mw	AI1	5,492,810	02/20/1996	Caetano-Anolles et al.			02/08/1994
	AJ1	5,567,585	10/22/1996	Caetano-Anolles et al.			06/09/1994
mw	AK1	6,127,122	10/03/2000	Park et al.			07/02/1998
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes
	AM						No
	AN						Yes
	AO						No
	AP						Yes
							No
<b>OTHER (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AR						
	AS						
	AT						
EXAMINER <u>Manner Wallenhorst</u>					DATE CONSIDERED <u>12-14-04</u>		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

Page 2 of 2

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.5190002/RWE/CJW

APPLICATION NO.  
10/648,264

FIRST NAMED INVENTOR  
Scott WHITNEY

FILING DATE  
August 27, 2003

ART UNIT  
1743

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mw	AA2	6,316,267 B1	11/13/2001	Bhalgat <i>et al.</i>			10/27/1999
	AB2	3,835,143	09/10/1974	Witzel <i>et al.</i>			04/25/1972
	AC2	4,863,413	08/01/1989	Katz <i>et al.</i>			04/03/1987
	AD2	5,486,460	01/23/1996	Townsend			05/20/1993
	AE2	5,545,308	08/13/1996	Murphy <i>et al.</i>			06/19/1995
	AF2	4,007,135	02/08/1977	Hayden <i>et al.</i>			11/22/1974
	AG2	5,200,296	04/06/1993	Nagamatsu <i>et al.</i>			04/08/1992
	AH2	6,635,489 B2	10/21/2003	Whitney			11/20/2001
	AI						
	AJ						
	AK						

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR			
AS			
AT			

EXAMINER Maurice Wallerhorst DATE CONSIDERED 12-14-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Scott WHITNEY

Appl. No.: 10/648,264

Filed: August 27, 2003

For: **Materials for Enhancing Staining  
of Biopolymers in Matrices**

Confirmation No.: 5236

Art Unit: 1743

Examiner: Wallenhorst, M.

Atty. Docket: 0942.5190002/RWE/CJW

**First Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicant's Information Disclosure Statement filed concurrently herewith in connection with the above-captioned application.

In accordance with 37 C.F.R. § 1.98(a)(2), no copies of the U.S. patents cited on the attached Form PTO-1449 are submitted.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates

should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

Our PTO-2038 Credit Card Payment Form in the amount of \$180.00 is enclosed with the Information Disclosure Statement filed concurrently herewith for payment of the fee under 37 C.F.R. § 1.17(p). It is believed that no further fee payment is due.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Scott WHITNEY  
Appl. No. 10/648,264

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

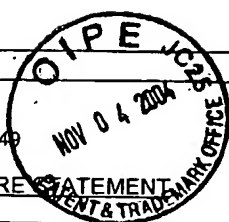
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Christopher J. Walsh  
Agent for Applicant  
Registration No. 55,709

Date: November 4, 2004

1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
(202) 371-2600



FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.5190002/RWE/CJWAPPLICATION NO.  
10/648,264FIRST NAMED INVENTOR  
Scott WHITNEYFILING DATE  
August 27, 2003ART UNIT  
1743

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
mw	AA1	4,405,720	09/20/1993	Merril			01/18/1982
mw	AB1	4,468,466	08/28/1984	Morrissey			02/16/1982
	AC1	4,575,452	03/11/1986	Lee et al.			09/21/1984
mw	AD1	4,703,016	10/27/1987	Merril			05/05/1986
	AE						
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## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mw	AR	1	Bergman, A.-C. et al., "Identification of gel-separated tumor marker proteins by mass spectrometry," <i>Electrophoresis</i> 21:679-686, Wiley-VCH (February 2000).
mw	AS	1	Carr, S.A. and Annan, R.S., "Overview of Peptide and Protein Analysis by Mass Spectrometry," in <i>Current Protocols in Protein Science</i> , Colligan, J.E. et al., Eds., John Wiley & Sons, Inc., New York, NY, pp. 16.1.1-16.1.27 (1996).
mw	AT	1	Expressions, "Mass Spectrometry-Compatible Silver Staining," Invitrogen Newsletter for Gene Cloning, Expression, and Analysis, Volume 7, page 9, November 2000.

EXAMINER

Maureen Wallenhorst

DATE CONSIDERED

12-14-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mw	AR	2	Fernandez, J. and Mische, S.M., "Enzymatic Digestion of Proteins on PVDF Membranes," in <i>Current Protocols in Protein Science</i> , Coligan, J.E. et al., Eds., New York, NY, pp. 11.2.1-11.2.10 (1995).
mw	AS	2	Gharahdaghi, F. et al., "Mass spectrometric identification of proteins from silver-stained polyacrylamide gel: a method for the removal of silver ions to enhance sensitivity," <i>Electrophoresis</i> 20:601-605, Wiley-VCH (March 1999).
mw	AT	2	Hellman, U. et al., "Improvement of an 'In-Gel' Digestion Procedure for the Micropreparation of Internal Protein Fragments for Amino Acid Sequencing," <i>Anal. Biochem.</i> 224:451-455, Academic Press, Inc. (1995).

EXAMINER

Maurice Wallenhorst

DATE CONSIDERED

12-14-04

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mw	AR	3	Merril, C.R. <i>et al.</i> , "Silver Staining Methods for Polyacrylamide Gel Electrophoresis," <i>Meth. Enzymol.</i> 96:230-239, Academic Press, Inc. (1983).
mw	AS	3	Oakley, B.R. <i>et al.</i> , "A Simplified Ultrasensitive Silver Stain for Detecting Proteins in Polyacrylamide Gels," <i>Anal. Biochem.</i> 105:361-363, Academic Press, Inc. (1980).
mw	AT	3	Patterson, S.D. and Aebersold, R., "Mass spectrometric approaches for the identification of gel-separated proteins," <i>Electrophoresis</i> 16:1791-1814, VCH (1995).

EXAMINER

Maureen Wallenhorst

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mw	AR	4	Rabilloud, T., "Mechanisms of protein silver staining in polyacrylamide gels: A 10-year synthesis," <i>Electrophoresis</i> 11:785-794, VCH (1990).
mw	AS	4	Rabilloud, T. <i>et al.</i> , "Silver-Staining of Proteins in Polyacrylamide Gels: A General Overview," <i>Cell. Mol. Biol.</i> 40:57-75, Cellular and Molecular Biology (1994).
mw	AT	4	Riviere, L.R., "Enzymatic Digestion of Proteins in Solution," in <i>Current Protocols in Protein Science</i> , Coligan, J.E. <i>et al.</i> , Eds., New York, NY, pp. 11.1.1-11.1.19 (1995).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mw	AR	5	Scheler, C. <i>et al.</i> , "Peptide mass fingerprint sequence coverage from differently stained proteins on two-dimensional electrophoresis patterns by matrix assisted laser desorption/ionization-mass spectrometry (MALDI-MS)," <i>Electrophoresis</i> 19:918-927, Wiley-VCH (1998).
mw	AS	5	Shevchenko, A. <i>et al.</i> , "Mass Spectrometric Sequencing of Proteins from Silver-Stained Polyacrylamide Gels," <i>Anal. Chem.</i> 68:850-858, American Chemical Society (1996).
mw	AT	5	Sigma Catalog, Products for Life Science Research, pp. 962-965 (2000-2001).

EXAMINER

Maureen Wallenhorst

DATE CONSIDERED

12-14-04

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APPLICATION NO.  
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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mw	AR	6	Stone, K.L. and Williams, K.R., "Digestion of Proteins in Gels for Sequence Analysis," in <i>Current Protocols in Protein Science</i> , Coligan, J.E. et al., Eds., New York, NY, pp. 11.3.1-11.3.13 (1995).
mw	AS	6	Wood, H.W., "The Examination of Gelatin Extracts and Polythionates by means of Paper Electrophoresis," <i>J. Photo. Science</i> 2:154-159, The Royal Photographic Society of Great Britain (1954).
	AT		

EXAMINER

Maureen Wallenhorst

DATE CONSIDERED

12-14-04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Scott WHITNEY

Appl. No.: 10/648,264

Filed: August 27, 2003

For: **Materials for Enhancing Staining of  
Biopolymers in Matrices**

Confirmation No.: 5236

Art Unit: 1743

Examiner: Wallenhorst, M.

Atty. Docket: 0942.5190002/RWE/CJW

**Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of documents AR1-AS6 were cited by or submitted to the Office in an Information Disclosure Statement that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. No. 09/988,746, filed November 20, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

In accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the

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This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 for payment of the fee under 37 C.F.R. § 1.17(p).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Scott WHITNEY.  
Appl. No. 10/648,264

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Christopher J. Walsh  
Agent for Applicant  
Registration No. 55,709

Date: November 4, 2004

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